

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4	("4962373"   "5717386"   "6587047"   "7064662").PN. OR ("7394397").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/08 13:48
L2	74	340/693.3.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 14:04
L3	24	("3655289"   "3717862"   "3774186"   "4004288").PN. OR ("4093943").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/08 14:10
L4	172	392/464.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/08 14:11
L5	385	392/464.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/08 14:11
L6	21	5 and (detector optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos bulb)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 14:12
L7	4	5 and (optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos bulb)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 14:12

L8	2554	(water near2 (heater boiler exchanger) calorifier geyser) and (optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos bulb)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 14:14
L9	351	(water near2 (heater boiler exchanger) calorifier geyser) and (optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 14:14
L11	99	9 and timer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 15:37
L12	54	(optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos) with parallel\$3 with (triac SCR thyristor switch relay) and (power energy money) with (cost\$3 conserv \$3 sav\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 15:45
L13	911	(water near2 (heater boiler exchanger) calorifier geyser) and circuit adj (panel breaker)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 16:01
L14	73	(optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos bulb) with parallel\$3 with (triac SCR thyristor switch relay) and (power energy money) with (cost\$3 conserv\$3 sav\$3) not 12	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 16:11

L15	57	("0750525"   "20030050737"   "2953757"   "3056922"   "3323056"   "3984798"   "4005380"   "4120031"   "4147978"   "4160950"   "4207557"   "4286213"   "4314200"   "4399510"   "4401943"   "4442492"   "4518913"   "4630211"   "4656874"   "4697182"   "4701698"   "4716409"   "4717872"   "4751495"   "4760334"   "4803632"   "4899131"   "4901007"   "4904995"   "4940976"   "4977368"   "5128611"   "5136514"   "5153837"   "5216357"   "5287287"   "5315531"   "5396168"   "5430430"   "5446370"   "5451923"   "5548527"   "5555508"   "5559894"   "5631843"   "5635895"   "5737730"   "6150955"   "6226600"   "D343803").PN. OR ("7043380").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/08 16:30
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L16	28	14 and current with (sens\$4 measur\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 16:33
L17	576	307/131.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 16:34
L18	14	(switch\$3 and parallel \$3 and current and time near2 (delay period) and normal\$4 near2 open\$3).clm.	US-PGPUB	OR	ON	2008/10/08 17:27
S1	9	("2388564"   "4272687"   "6208806").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/06 14:15
S2	385	392/464.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 14:22
S3	255	water near heater and ((breaker) (circuitbreaker)) and timer and current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 14:31
S4	1783	(circuit near (breaker panel box) (circuitbreaker)) and timer and current near3 (sens\$4 measur \$4 detect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 15:05
S5	1670	S4 not (S1 S2 S3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/10/06 15:05

S6	1993	(circuit near2 (breaker panel box) (circuitbreaker)) and timer and current near3 (sens\$4 measur \$4 detect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 15:44
S7	1851	(circuit adj2 (breaker panel box) (circuitbreaker)) and timer and current near3 (sens\$4 measur \$4 detect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 15:45
S8	1684	S7 and switch\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 15:46
S9	1126	S8 and parallel\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 15:46
S10	495	S9 and (circuit power voltage current switch \$3 electric\$3).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 15:47
S11	58	("4316187"   "4685046"   "4949214"   "5038246"   "5361184"   "5452223").PN. OR ("5875087").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/06 16:08
S12	222	(circuit adj2 (breaker panel box) (circuitbreaker)) and tim\$3 with (load heater) and (triac SCR thyristor) and normal \$4 near2 open\$3 and (delay timer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 16:13
S13	160	S12 and current with (sens\$4 measur\$4 detect\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 16:15

S14	351	tim\$3 with (load heater) and (triac SCR thyristor) same normal \$4 near2 open\$3 and (delay timer) not (S12 S13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 16:28
S15	113	("5326269" "4578551" "6118088" "4351994" "4357503" "4453056" "4509628" "4604506" "4814739" "4815214" "4253003" "4259618" "4357520" "4358666" "4368385" "4418599" "4447484" RE31848 "4510844" "4559510" "5001464" "5380967" "5513259" "5541756" "5637930" "5895985" "5952797" "4262274" "4268953" "4270808" "4284904" "4288675" "4313224" "4313510" "4337447" "4356361" "4357504" "4371764" "4394551" "4395647" "4403126" "4419653" "4427851" "4428492" "4450326" "4466048" "4467391" "4472612" "4486688" "4509585" ).pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:18
S16	52	tim\$3 with (waterheater heater) and (triac SCR thyristor switch) with parallel\$3 with (detector optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:25

S17	45	tim\$3 same (waterheater heater) and (triac SCR thyristor switch) with parallel\$3 with (detector optocoupler photocoupler photodiode isocoupler optoisolator opto- isolator photomos) not S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:28
S18	8603	tim\$3 same (waterheater heater) and (triac SCR thyristor switch) and (detector optocoupler photocoupler photodiode isocoupler optoisolator opto- isolator photomos) not (S16 S17)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:31
S19	6788	S18 and current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:32
S20	6439	S19 and switch	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:32
S22	899	S20 and (triac SCR thyristor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:33
S23	10	tim\$3 with (waterheater heater boiler (heat adj exchang\$3) calorifiers geyser) and (triac SCR thyristor switch) with parallel\$3 with (detector optocoupler photocoupler photodiode isocoupler optoisolator opto- isolator photomos) not S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:47

S24	5468	(waterheater heater boiler (heat adj exchang\$3) calorifiers geyser) and timer and (triac SCR thyristor switch) and (detector optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos) not (S15 S16 S17 S23)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:49
S25	1433	(waterheater boiler (heat adj exchang\$3) calorifiers geyser) and timer and (triac SCR thyristor switch) and (detector optocoupler photocoupler photodiode isocoupler optoisolator opto-isolator photomos) not (S15 S16 S17 S23)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:49
S26	635	S25 and (panel breaker)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/07 15:51
S27	1136	(sav\$3 conserv\$3) with (energy power) same cost\$3 and timer and switch\$3 same tim \$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 11:36
S28	953	S27 and current	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/08 11:37

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